



SUMMARY OF MATERIALS INSPECTED GENERAL SECTION 8

8.1 GENERAL.

8.1.1 Federal regulations require the department to submit a certification, upon completion and acceptance of a project, stating that the materials incorporated into the work substantially met the requirements of the contract. In addition, the department is required to cite any shortages of material inspection or circumstances of acceptance of materials which were used and did not receive normal inspection. The Materials unit has been designated by the department to be the certifying agent.

8.1.2 It is the intent of the specifications that all materials be properly inspected and reported for a specific project. However, it is realized that the total inspected quantity of a specific material might not always be attained. These instances should normally be rare. If shortages of inspected and reported quantities occur, the district Operations Engineer should determine if substantial compliance has been met. Substantial compliance indicates that there is a reasonable tolerance that could be applied. It has been determined that the reasonable tolerance would be a maximum of 10 percent, however, this tolerance should only be used judiciously, dependent upon the type and quantity of material represented.

8.1.3 Accordingly, to comply with the requirements of the Federal Highway Administration and to ascertain that the materials have been properly inspected and reported, the procedures set forth in this section should be followed.

8.2 PROCEDURE.

8.2.1 Upon completion of a project, a statement attesting that all materials incorporated into the project were properly and adequately inspected is to be submitted to the State Construction and Materials Engineer. The statement shall include any exceptions as to material shortages or lack of inspection.

8.2.2 A copy of the desired statement is shown as Exhibit 8-A of this Section and is to be signed by the District Engineer or district Operations Engineer. The signature indicates that all data submitted has been reviewed by individuals reasonably familiar with the project and the data is correct and complete. This statement is to be accompanied by a Summary Packet as detailed in this section.

8.2.3 These documents should be completed and forwarded within four weeks for small projects or six weeks for large projects, from the date final quantities for the project have been established. The Resident Engineer's staff will enter a Key Date in SiteManager to indicate that data required for the summary is ready for use and that no additional changes will be made, including Change Orders. If for some reason the summary cannot be completed and forwarded within this time frame, the State Construction and Materials Engineer should be notified. A small contract is defined as having less than 40 bid items and an original bid amount of less than \$1,000,000.00.

8.2.4 SUMMARY PACKET OF MATERIALS INSPECTED. A summary packet of materials inspected is to be submitted for each project. The summary packet, as prepared through SiteManager and Impromptu, is to include the following components:



8.2.4.1 The standard cover letter indicating that the attached information has been reviewed and is correct. (Exhibit 8-A)

8.2.4.2 Material Summary.IMR, a standard Impromptu report (Exhibit 8-B). This report shows the bid quantity plus any change order quantities and multiplies it by the conversion factor to indicate the Represented Quantity as the amount that requires inspection.

8.2.4.3 Sampling Checklist, a standard SiteManager report. This report shows the amount of the bid item and the number of samples taken to meet the sampling requirement. (Exhibit 8-C)

8.2.4.4 MixDesignData for Asphalt.IMR, a standard Impromptu report. This report takes the Mix ID and reports each component and its producer, listing them by material code. (Exhibit 8-D)

8.2.4.5 MixDesignData for Concrete.IMR, a standard Impromptu report. This report takes the PCC Mix ID information and reports each component, the producer supplier, and material information for a specific contract. (Exhibit 8-E)

8.2.4.6 Mixing Facility Components. IMR, a standard Impromptu report, is prepared for each mixing facility (asphalt or concrete) used on the contract. This lists the rationale for acceptance of each of the components used in the mix by producer and material code. (Exhibit 8-F)

To choose dates for creating report, select “Beginning date (YYYYMMDD) of calendar year” the aggregate was produced, e.g., 20000101. Then select the “date (YYYYMMDD) of first use in designated calendar year.” If work on the job continues longer than a year, it may be necessary to create a Mixing Facility Component, IMR for each year of construction. To get facilities on this report, when reporting sampling at the quarry, make sample record and designate mixing facility on the other tab.

8.2.4.7 Summary of IAS.IMR, a standard Impromptu report. This report lists each IAS test taken to determine if they meet the requirements as set out in [FS-10](#). (Exhibit 8-G)

8.2.4.8 Summary of FAST.IMR, a standard Impromptu report. This report lists each FAST test taken to determine if they meet the requirements as set out in [FS-15](#). (Exhibit 8-H)

8.2.4.9 Attachment page(s) as necessary to explain any exceptions to standard policy, or for issues not adequately covered by the standard reports.

8.2.4.10 The 2AA sheets, a statement that the 2AA sheet does not apply, or the name and phone number of the individual responsible for the 2AA sheet.

8.2.5 It is intended that the required quantity be covered by proper and adequate inspection. If the quantity inspected and reported is less than the required quantity, a notation is to be made on the summary, or attached to the summary on a separate sheet, describing the basis of acceptance of the material not covered by proper inspection.



8.2.6 If a material was used and not properly inspected, an explanation as to the basis of acceptance for use is to be shown on the summary or on an attached sheet. Any correspondence relative to the basis of acceptance should be attached to the summary. It is important that complete details be furnished as to the basis of acceptance.

8.3 COMBINATION PROJECTS.

8.3.1 Combination projects may be shown on the same summary providing the contract quantities and quantities required for each project in the combination are listed and that Final Change Order date of the projects included fall within the 4 or 6 week period.

8.4 DISTRIBUTION. Distribution of the statement, summary of materials inspected packet and substantiating documents shall be as follows:

State Construction and Materials Engineer
Resident Engineer

MEMORANDUM



Missouri Department of Transportation
District __ Operations
Location

TO: _____
State Construction and Materials Engineer

FROM: _____
District Engineer or Operations Engineer

DATE:

SUBJECT: Construction and Materials
Materials Certification

Contract:
Route:
Job. No.
County:

All of the materials, except those listed below, were properly covered by reports of field inspections and tests, by laboratory tests, or by manufacturers certifications supported by field inspections. The items listed below were accepted under the conditions noted.

Copies of reports covering approval of the materials are on file in our office or have been recorded using SiteManager.

A copy of our summary of inspections of material used on this project, and supporting documentation, is attached for your file.

EXHIBIT 8-A



MATERIALS

Material Summary for the 991022-702

Date: 07/19/2006

Primary Job: J7L0006A

Route: 126/71 E OUTER RD.

Primary County: BARTON

Project	Line	Item	Description + Supplemental	Bid + C.O. Quantity	Bid Units	Material Code	Conv Factor	Material Quantity	Material Units	Sample ID	Represented Quantity	Total Reported	Over/Under Rptd by Line	Over/Under Rptd by Project
J7L0006A	0010	4021110	ASPHALT BINDER (SURFACE LEVELING)	266.3	TONS	1015ACPG.6422	1.0000	266.30	tons	07MA1124	266.300	266.300	0.00	0.00
	0020	4022010	MINERAL AGGREGATE (SURFACE LEVELING)	4737	TONS	0402SLPMSL	1.0000	4737.00	tons	07MA1125	4736.320	4736.320	-0.68	-0.68
	0030	4071005	TACK COAT	2110	GAL	1016EA....SS1	1.0000	2110.00	gallons	07MA1122	4826.000	4826.000	2,716.00	2,716.00
	0050	5161005	CONSTRUCTION SIGNS	268	SGFT	1041CS	1.0000	268.00	sq. feet	07MA1151	268.000	268.000	0.00	0.00
	0080	6208005	TEMPORARY RAISED PAVEMENT MARKER	970	EA	1046PMTFRSVL	1.0000	970.00	each	07MA1123	970.000	970.000	0.00	0.00
J7L0006B	0070	4021110	ASPHALT BINDER (SURFACE LEVELING) PG 64-22	11.7	TONS	1015ACPG.6422	1.0000	11.70	tons	07MA1124	9.500	9.500	-2.20	-2.20
	0080	4022010	MINERAL AGGREGATE (SURFACE LEVELING) PG64-22	193	TONS	0402SLPMSL	1.0000	193.00	tons	07MA1125	157.000	157.000	-36.00	-36.00
	0080	4071005	TACK COAT	150	GAL	1016EA....SS1	1.0000	150.00	gallons	07MA1122	200.000	200.000	50.00	50.00
	0110	5161005	CONSTRUCTION SIGNS	176	SGFT	1041CS	1.0000	176.00	sq. feet	07MA1151	176.000	176.000	0.00	0.00
	0120	6208005	TEMPORARY RAISED PAVEMENT MARKER	35	EA	1046PMTFRSVL	1.0000	35.00	each	07MA1123	35.000	35.000	0.00	0.00

Records that have been marked Rejected or Void are not included in this report. Values shown in the Over/Under Rptd by Project column report for every occurrence of that material code.

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EXHIBIT 8-B



MATERIALS

RPT ID: RHMSPCL
USER: kolbat

Missouri

Department of Transportation

Sampling Checklist

DATE: 02/19/2000
PAGE: 1 of 1

Contract ID: 991022-702

Federal/State Project : 991022-702

Location: From the Kansas State Line East to Route 43 Near Nashville

Type of Work: ASPHALT PROJE

County : BARTON

Route: 126/21 E OUTER RD.

Vendor ID: 0010640

Project	Line Item	Item Code	Item Description				Unit	Bid + CO Quantity		Installed Quantity		
	Material	Name	Unit	Smpl Type	Acpt Mthd	Prod/Supp	Test Meth	Cur Qty	Tot Taken	Tot Comp	Tot Req	Req Qty
J7L0005A	0010	4021110	ASPHALT BINDER (SURFACE LEVELING) PG 64-2:				TONS	286.300	286.3			
	1015ACPG..E	PG 64-22 Performance Gr Asph Binds	E042	DPRD	CETE	3176700025	----	1	0	1	1	0
J7L0005A	0020	4022010	MINERAL AGGREGATE (SURFACE LEVELING) PG:				TONS	4,737.000	4736.32			
	04025LPM5I	Plant Mix for Surface Leveling	E042	DPRD	SATE	3176700025	----	1	0	1	1	0
J7L0005A	0030	4071005	TACK COAT				GAL	2,110.000	2110			
	1015EA....S:	SS-1 Emulsified Asphalt	E010	DPRD	CERT	3177100227	----	1	0	1	1	0
J7L0005A	0050	6161005	CONSTRUCTION SIGNS				SGFT	288.000	288			
	1041CS	Construction Sign	E039	DPRD	CERT	3178500154	----	1	0	1	1	0
J7L0005A	0060	6208065	TEMPORARY RAISED PAVEMENT MARKER				EA	970.000	970			
	1048PMTPR	Temporary Raised Yellow Pavement M	E008	DPRD	CERT	3176700025	----	1	0	1	1	0
J7L0005B	0070	4021110	ASPHALT BINDER (SURFACE LEVELING) PG 64-2:				TONS	11,700	9.5			
	1015ACPG..E	PG 64-22 Performance Gr Asph Binds	E042	DPRD	CETE	3176700025	----	1	0	1	1	0
J7L0005B	0080	4022010	MINERAL AGGREGATE (SURFACE LEVELING) PG:				TONS	193.000	157			
	04025LPM5I	Plant Mix for Surface Leveling	E042	DPRD	SATE	3176700025	----	1	0	1	1	0
J7L0005B	0090	4071005	TACK COAT				GAL	150.000	147			
	1015EA....S:	SS-1 Emulsified Asphalt	E010	DPRD	CERT	3177100227	----	1	0	1	1	0
J7L0005B	0110	6161005	CONSTRUCTION SIGNS				SGFT	176.000	167			
	1041CS	Construction Sign	E039	DPRD	CERT	3178500154	----	1	0	1	1	0
J7L0005B	0120	6208065	TEMPORARY RAISED PAVEMENT MARKER				EA	39.000	39			
	1048PMTPR	Temporary Raised Yellow Pavement M	E008	DPRD	CERT	3176700025	----	1	0	1	1	0

EXHIBIT 8-C



MATERIALS

Mix Design Database Asphalt
Revised 12/27/2001

Asphalt Mix Design Data for Contract: 000616-105

Date: 02/05/2002

Mix ID	Producer	Producer Name	Material Code	Material	Percent
SP125 00-302	304200012	Tosco (Equilon) (Shell), Kansas City	1015ACPG..7022	PG 70-22 Performance Graded Asph Bind	5.6
	303061711	Martin Marietta, Pattonsburg	1002MSSPMSLS	Mfg Sand (Limestone) for Superpave	37.0
	303061711	Martin Marietta, Pattonsburg	100204SPLS	3/8" (9.5mm) Max Size LS for Superpave	36.0
	303061711	Martin Marietta, Pattonsburg	100207SPLS	3/4" (19.0 mm) Max Size LS for SP	26.0
	303240021	Mississippi Lime #2 Quarry Ste. Genevieve	1002HLACHL	Hydrated Lime for Asphalt Concrete	1.0
SP125 01-113	303000032	Marathon Oil, Meredosia Term	1015ACPG..7022	PG 70-22 Performance Graded Asph Bind	5.8
	303310011	Missouri Rock, Orrick Quarry	100207SPLSE	3/4" Max Size Limestone for Superpave	45.8
	317670301	APAC-Missouri (Limpus - Harrisonville Qy)	100204SPLSE	3/8" (9.5 mm) Max Size LS for SuperPave	20.6
	317670301	APAC-Missouri (Limpus - Harrisonville Qy)	1002MSSPMSLS	Mfg Sand (Limestone) for Superpave	17.0
	300400031	Bingham S&G #3, Chat, Atlas	1002MSACMSCTM	Mod Grad Mfg Sand (Chat) for Asphalt Co	10.0
	301980011	Hedkett Slag	100205ACSS	1/2" Max Size Steel Slag for Asphalt Con	6.0
	300170401	Mississippi Lime Co, Springfield Plant (Ash Gro	1002HLACHL	Hydrated Lime for Asphalt Concrete	0.6
SP190 00-301	319960012	Textile Rubber & Chemical Co.	0403BXAS	USE 1071-Bit Anti-Strip Agent (Expermtl)	1.0
	304200012	Tosco (Equilon) (Shell), Kansas City	1015ACPG..7022	PG 70-22 Performance Graded Asph Bind	5.2
	303061711	Martin Marietta, Pattonsburg	1002MSSPMSLS	Mfg Sand (Limestone) for Superpave	38.0
	303061711	Martin Marietta, Pattonsburg	100207SPLS	3/4" (19.0 mm) Max Size LS for SP	27.0
	303061711	Martin Marietta, Pattonsburg	100204SPLS	3/8" (9.5mm) Max Size LS for Superpave	21.0
	303061711	Martin Marietta, Pattonsburg	100210SPLS	1" (25.0 mm) Max Size LS for Superpave	13.0
	303240021	Mississippi Lime #2 Quarry Ste. Genevieve	1002HLACHL	Hydrated Lime for Asphalt Concrete	1.0

EXHIBIT 8-D



MATERIALS

Concrete Mix Design Data				Contract: 000616-105		Date: 02/05/2012
Mix ID	P/S Code	P/S Name	Material Code	Material Name	Mass	
01021	3061700111	Kenny Stoner Sand Company	1005FACCNS..CB	Class B Natural Sand for Concrete	1251	
	3021300114	Hunt Midwest, Randolph	1005GDCMLS	Grad D Limestone for Concrete Mason	1858	
	3013405234	Holcim (Holnam) Cement, N. Kansas City	1019PCT1	Type I Portland Cement	584	
	390000013X	Water Supplier - Tested or Publicly Regula	1070WT	Water	300	
01022	3061700111	Kenny Stoner Sand Company	1005FACCNS..CB	Class B Natural Sand for Concrete	1057	
	3030616511	Martin Marietta #165, Gallatin	1005GFCPLS	Grad F Limestone for PCCP	1769	
	3196500136	ISG Resources, Cincinnati (Thomas Hill)	1018FL..CC	Class C Fly Ash	97	
	3001701037	Ash Grove Cement, Chanute,KS	1019PCT1	Type I Portland Cement	550	
01023	390000013X	Water Supplier - Tested or Publicly Regula	1070WT	Water	286	
	3061700111	Kenny Stoner Sand Company	1005FACCNS..CB	Class B Natural Sand for Concrete	1062	
	3030616511	Martin Marietta #165, Gallatin	1005GFCPLS	Grad F Limestone for PCCP	1776	
	3001701037	Ash Grove Cement, Chanute,KS	1019PCT1	Type I Portland Cement	660	
01024	390000013X	Water Supplier - Tested or Publicly Regula	1070WT	Water	288	
	3061700111	Kenny Stoner Sand Company	1005FACCNS..CB	Class B Natural Sand for Concrete	1060	
	3030616511	Martin Marietta #165, Gallatin	1005GFCPLS	Grad F Limestone for PCCP	1731	
	3001701037	Ash Grove Cement, Chanute,KS	1019PCT1	Type I Portland Cement	671	
01025	390000013X	Water Supplier - Tested or Publicly Regula	1070WT	Water	297	
	3061700111	Kenny Stoner Sand Company	1005FACCNS..CB	Class B Natural Sand for Concrete	1066	
	3030616511	Martin Marietta #165, Gallatin	1005GFCPLS	Grad F Limestone for PCCP	1706	
	3196500136	ISG Resources, Cincinnati (Thomas Hill)	1018FL..CC	Class C Fly Ash	101	
	3001701037	Ash Grove Cement, Chanute,KS	1019PCT1	Type I Portland Cement	574	
	390000013X	Water Supplier - Tested or Publicly Regula	1070WT	Water	299	

EXHIBIT E



MATERIALS

Mixing Facility Components.lmr
Revised 01/10/2000

Date: 07/19/2000

Mixing Facility Components for 3176700025 Joplin

Sample ID	Material Code	Material Full Name	Date	Prod Code	Producer Supplier Name
08D3B238	100204SPLSE	3/8" (9.5 mm) Max Size LS for SuperPave	20000630	3018800118	Springfield Underground
07TMN151	100207ACLS	3/4" (19 mm)Max Size LS for Asphalt Co	20000314	3023600117	Joplin Stone
07SRJ089	100210BBLS	1" (25mm) Max Size Limestone for Bit Bas	20000523	3023600117	Joplin Stone
07TMN155	1002CAACCT	Chat for Asphalt Concrete	19990908	3123900317	Bedrock - Vogie
08G1W043	1002HLACHL	Hydrated Lime for Asphalt Concrete	20000414	3001704018	Ash Grove #40, Springfield Lime
07TMN153	1002MSACMSLS	Mfg Sand (Limestone) for Asphalt Concre	20000314	3023600117	Joplin Stone
07TMN154	1002SGACLS	Limestone Screenings for Asphalt Concre	20000314	3023600117	Joplin Stone

EXHIBIT 8-F



MATERIALS

Summary of IAS Test		Summary of IAS Testing				Date: 07/19/2000	
Missouri Department of Transportation - Materials							
Contract:	Project:	Route:	County:				
Material	Test Description	Sample ID	Report Date	Station	Offset	Sample Date	Status

Note: This exhibit indicates a project not requiring IAS testing. The form shown is submitted regardless whether IAS testing is required.

EXHIBIT 8-G



MATERIALS

Summary of FAST Testing		Date: 02/05/2002					
Missouri Department of Transportation - Materials							
Contract	Project:	Route:	County:				
Material	Test Description	Sample ID	Report Date	Station	Offset	Sample Date	Status

EXHIBIT 8-H